

The University of Texas at Austin
Jackson School of Geosciences, Bureau of Economic Geology (BEG)
Two postdoctoral positions in geomechanics of induced earthquakes

Description: Depending on qualifications, the postdoctoral researchers will devise and execute numerical geomechanical simulations of poroelastic response of fluid injection in wellbores, and perform Coulomb shear stress analyses of faults and fault populations using deterministic and stochastic approaches. It is anticipated that one researcher focuses on deterministic approaches at the reservoir scale, and the second on stochastic approaches at the basin scale. These positions will be supervised by Dr. Peter Eichhubl (BEG, <http://www.beg.utexas.edu/eichhubl/index.htm>), in collaboration with Dr. Peter Hennings and members of the TexNET/CISR team at UT Austin <http://www.beg.utexas.edu/cisr> .

Desired qualifications: Experience in numerical modeling in reservoir or fault geomechanics and poromechanics, experience in stochastic approaches to earthquake hazard analysis or failure probability analysis

Minimum qualifications: Recent (<3 years) PhD in geosciences, geophysics, petroleum engineering, or a relevant discipline with research focus on geomechanics, earthquake hazard analysis or stochastic failure analysis. The successful candidates must provide a record of successful collaborative research experiences, be able to work toward project deadlines, and have a willingness to work with industry scientists to apply techniques and research results. The candidate must have a demonstrated record of scientific publication in international journals and demonstrated fluency in spoken and written English. The successful applicant will be expected to present at meetings with sponsors, present at conferences, and publish in international journals.

It is anticipated that both positions are available starting September 1, 2017, for an initial duration of 1 year, with the possibility of renewal based on satisfactory progress and availability of funds. The successful candidates will join a multidisciplinary team of scientists and engineers at the Bureau of Economic Geology and the Cockrell School of Engineering. UT offers competitive salary and benefits, a collaborative research environment, and the facilities of a large research university.

To Apply: Applicants must send a *combined* electronic (pdf) file containing a letter of application, resume with a complete record of publications including links to articles, brief statement of professional goals with an emphasis on research objectives, and names and addresses of three professional references (at least two academic) via e-mail to Dr. Peter Eichhubl, peter.eichhubl@beg.utexas.edu. Applications will be reviewed until the positions are filled and positions are subject to final budget approval. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. All positions are security-sensitive; conviction verification is conducted on applicants selected.